

## REMARKS

The Examiner is thanked for the thorough examination of the present application. The Office Action, however, tentatively rejected all claims 1-19. In response, Applicant submits the foregoing amendments and the following remarks. In short, the amendments are clerical or cosmetic in nature, and Applicants state that the subject matter of the original claims patentably defines over the cited art. Claims 1, 15 and 18 are the independent claims, and remarks will focus on those claims. For at least the following reasons, it is submitted that this application is in condition for allowance.

Claims 1-4, 6-11, and 13-19 stand rejected under 35 U.S.C. 103(a) as allegedly being unpatentable over *Nunally* (2002/0059481). Applicant respectfully requests reconsideration and these rejections.

Independent claim 1 recites:

1. An audio-video (AV) signal transceiving processing device, comprising:
  - an AV decoder for receiving an analog video signal and a corresponding analog audio signal, and outputting a first digital audio signal and a corresponding first digital audio signal; and
  - a bridge for receiving the first digital video signal and the first audio signal and **outputting a second video signal and a second audio signal, which are compliant to a bus interface standard, to a computer through a bus interface compliant to the bus interface standard;**wherein the bus interface is a PCMCIA, CardBus or Express Card bus interface.

(*Emphasis Added*). Claim 1 patentably defines over the cited art for at least the reason that the cited art fails to disclose the features emphasized above.

As reflected above, independent claim 1 defines an audio-video (AV) signal transceiving processing device. The device has an AV decoder for receiving an analog video signal and a corresponding analog audio signal, and outputting a first digital audio

signal and a corresponding first digital audio signal. The device further has a bridge for receiving the first digital video signal and the first audio signal and **outputting** a second video signal and a second audio signal, which are compliant to a bus interface standard, **to a computer** through a bus interface compliant to the bus interface standard. Finally, in the embodiments of claim 1, the bus interface is a PCMCIA, CardBus or Express Card bus interface.

In contrast, *Nunally* discloses a system 100 includes a multimedia application specific processor (MASP) 110, a communication interface module (CIM) 120, and a radio transceiver 140. ***The CIM 120 provides input/output interface to the MASP 110, which is a single-chip semiconductor device.*** The MASP 110 includes an MPEG motion encoder and decoder 710, a DMA controller 740, a PCI bridge 745, an interrupt control 720, a GPIO and data port 735, and a bus 790. The CIM 120 includes a data codec 122, a voice codec 124, and a video codec 126. ***The data codec 122 provides coding and decoding interface of a personal computer.*** The voice codec 124 provides coding and decoding interface to audio data such as data from a telephone. The video codec 126 provides coding and encoding interface to video data from a video camera. (see e.g., Paragraphs [0023]-[0025] and [0067]; and FIGS. 1 and 7).

There is no disclosure or suggestion from *Nunally* of a bridge for **outputting** a second video signal and a second audio signal, which are compliant to a bus interface standard, **to a computer**, as expressly recited in claim 1. Instead, the PCI bridge 745 of *Nunally*, relied on by the Examiner as being the bridge of the present invention, is an element of multimedia application specific processor (MASP) 110, which ***fails to directly output a signal to a computer.*** The MASP 110 inputs/outputs data ***from/to***

**the communication interface module (CIM) 120**, and then the data codec 122 of CIM 120 provides coding and decoding interface of a personal computer.

Specifically, the MASP 110 of *Nunally* is **a single-chip semiconductor device** in **a wireless mobile station system** in the GSM, **without being directly connected to the computer**. This contrasts with the paragraph [0003] of the present application, in which the audio-video (AV) signal transceiving processing device is **a TV tuner card or TV capture card installed in the computer**.

Further, it is noted from paragraph [0024] of the present application that “The design of the AV signal transceiving processing device described in the above embodiment **decodes** the received analog video and analog audio signals into digital video signals and digital audio signals **and outputs them to the computer**, fully exploits the high speed transmission ability for raw data by the PCMCIA/CardBus/Express Card bus interface, and the high computational ability.” That is, the signals are processed by the AV signal transceiving processing device **without being encoded by an encoder**. However, MASP includes an MPEG motion **encoder and decoder** 710 for performing video motion encoding and decoding functions.

For at least the foregoing reasons, claim 1 defines over *Nunally*. In fact, the Office Action never specifically applies any specific teaching of *Nunally* as allegedly teaching the outputting of the second video and audio signals to the computer. Instead, the Office Action generally alleges that “it would have been obvious .. to pass the digital A/V data ... to an output peripheral, such as a computer (e.g., section [0025]), thereby meeting claim 1. In fact, section [0025] of *Nunally* states:

[0025] The CIM 120 provides input/output interface to the MASP 110. The CIM 120 includes a data codec 122, a voice codec 124, a video codec 126, other codecs 128, a codec selector control 132, and a

communication application specific processor (CASP) 134. The data codec 122 provides coding and decoding interface of data terminal equipment such as personal computer (PC), personal digital assistant (PDA), fax, etc. The voice codec 124 provides coding and decoding interface to audio data such as data from telephone signal. The video codec 126 provides coding and encoding interface to video data from video or image sources such as video cameras. Other codecs 128 provide coding and decoding interface to other multimedia information. The codec selector control 132 controls the selection of the appropriate codecs for the media function performed by the MASP 110. The CASP 134 performs a number of communication functions on the baseband signals received from or transmitted to the radio transceiver 140. Examples of these functions include up- and down-conversion of the baseband to IF and RF, and provides for control of frequency and power and PA and LNA for the front-end.

As can be readily verified, there is no teaching anywhere in this cited portion of Nunally for outputting the digital and audio signals to a computer. Consequently, Applicant submits that the application of Nunally, as applied by the Office Action, is clearly deficient to teach or disclose the features of claim 1.

As such, the claimed structure is neither disclosed in nor suggested by *Nunally*. Therefore, claim 1 is not rendered obvious by the cited reference. Further, claims 15 and 18 are independent claims, which embody limitations similar to the defining features of claim 1. Therefore, the rejections of those claims should be withdrawn for the same reasons. Insofar as all remaining claims depend from claim 1, 15, or 18, all rejections should be withdrawn. *In re Fine*, 837 F.2d 1071, 5 U.S.P.Q.2d 1596, 1600 (Fed. Cir. 1988).

## **CONCLUSION**

Based on the above, it is submitted that this application is in condition for allowance and such a Notice, with allowed claims 1-19, earnestly is solicited.

If the Examiner believes that a conference would be of value in expediting the prosecution of this application, the Examiner is hereby invited to telephone the undersigned counsel to arrange for such a conference.

No fee is believed to be due in connection with this amendment and response to Office Action. If, however, any fee is believed to be due, you are hereby authorized to charge any such fee to deposit account No. 20-0778.

Respectfully submitted,

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